SOFTWARE SUSTAINABILITY AND ACQUISITION REFORM



A VIEW FROM THE BOTTOM

28 Jan 03

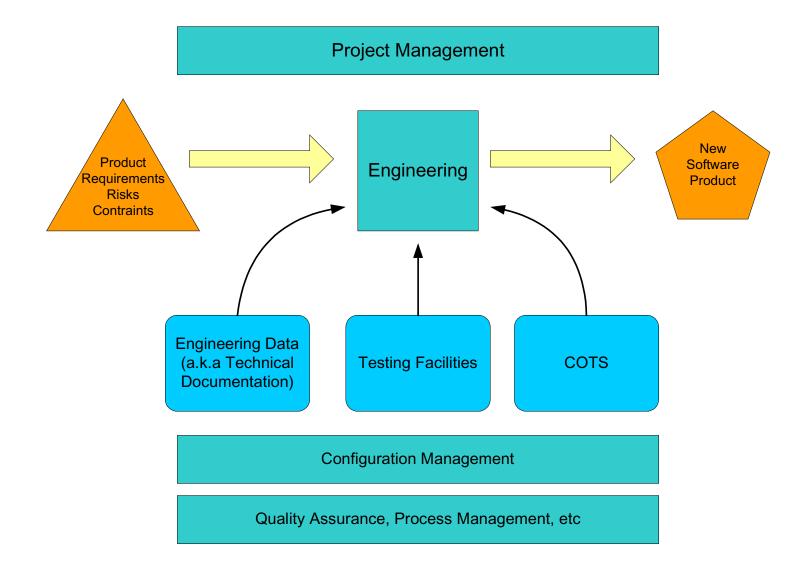
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Software Acquisition Fact of Life

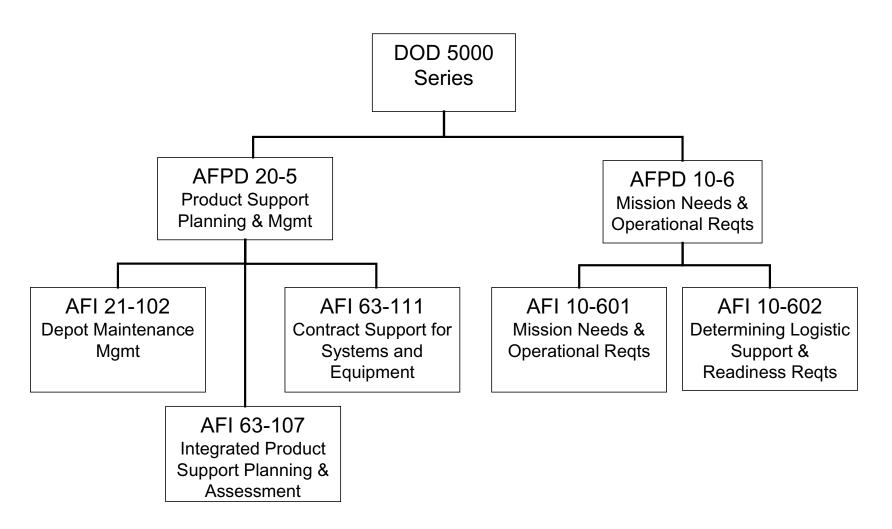


WITH SUFFICIENT DEVELOPMENT TIME AND RESOURCES, SOFTWARE CAN ALWAYS BE PRODUCED WITH HIGH QUALITY THE FIRST TIME

WE HAVE KNOWN FOR 30 YEARS HOW TO DEVELOP SOFTWARE

Logistics Planning





Policy and Principles



FLEXIBLE CYCLE TIME PERFORMANCE TAILORED BASED **TOTAL SYSTEM** INNOVATIVE **APPROACH** DECENTRALIZED RESPONSIBILITY SYSTEM ENGINEERING

Software Acquisition – What Happens

AFMC

- RESOURCES
- COTS
- SUSTAINMENT
- TOO MUCH HELP FROM WELL MEANING, BUT UNINFORMED PEOPLE

Observations



- NO POLICY ON SUSTAINMENT
- NO REQUIREMENT TO VERIFY SUSTAINMENT
- ACQUISITION POLICY DOESN'T REQUIRE SOFTWARE FOCUS
- TOO MANY OPPORTUNITIES TO DELAY SUSTAINMENT
- TAILORING TRANSLATES TO ELIMINATE

What Should We Do?



- MANAGE SOFTWARE AS A CRITICAL ACQUISITION ELEMENT
- ACQUIRE SUSTAINMENT CAPABILITY FOR TOTAL SYSTEM
- TREAT COTS AS ANOTHER SYSTEM REQUIRING SUPPORT

TEAM TINKER



U.S. AIR FORCE

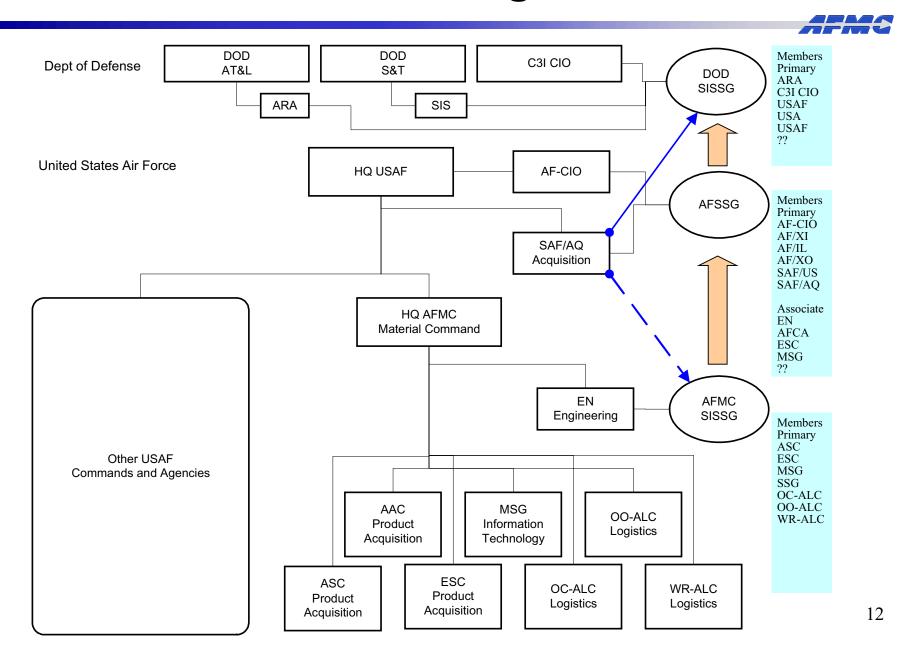


Constant Wind Shifts



- DOD 5000 Series documents undergoing regular changes. General trend to less guidance and more "flexibility"
 - We tend to see this as more opportunities to mess up
 - Latest and most radical change is near release
 - Leverage Flexibility
 More Training & Experience
- See disconnects between DOD and Service Instructions
 - Not much time for high level changes to filter into lower level practice
- A lot of old practice still done due to older more experienced staff still around. As they go problems tend to show up. Due to civilian demographics risk is to see more problems develop
 - Although there is growing low-level pushes for process
- Software is largely ignored in major Service policy instruments. Been a major issue of debate over the years

Software Cross Cutting Issues Flow



Concerns



- AFMC SISSG has focused on Weapon System software.
- AFSSG & DOD SISSG tend to focus on IT software and some Systems Engineering
- HQ & DOD SSG idea is new organizational formations.
 Relationships in flux. AFMC SISSG has existed in several forms over many years.
 - Lesson learned: SSGs prosper when software is hot topic otherwise tend to fade away
- SSGs are advisory groups. They do not make policy.

Recent Topics



AFMC SISSG

- S/W Sustainment Questions for SECAF
 - Programming Languages
 - Training
 - Staffing
 - Quality of S/W Product Engineering Data
 - System Architecture Affordable, Sustainable, Long lasting
 - SMARTS & PM Sustainment Indicators
- ASC Acquisition S/W Process Guidebook
- Group Organization & Long Term Strategy

AFSSG

- Getting organized
- DOD SISSG
 - CMMI
 - Acquisition Training
 - Program Cost Metrics
 - Linking 5000 & 8500 series
 - Independent Expert Reviews